WHAT IS CLAIMED IS:

- 1. A manufacturing method of carbon nanotubes by means of laser ablation, wherein carbon molecules having 5-memberd carbon ring bonds are included at least in part of a laser irradiation target.
- 2. A manufacturing method of carbon nanotubes as claimed in claim 1, wherein carbon molecules having fullerene bonds are included in the laser irradiation target.
- 3. A manufacturing method of carbon nanotubes as claimed in claim 1, wherein C_{60} molecules are used as the carbon molecules having 5-memberd carbon ring bonds.
- 4. A manufacturing method of carbon nanotubes as claimed in claim 1, wherein a short pulse-width laser is used for the laser ablation.
- 5. A manufacturing method of carbon nanotubes as claimed in claim 1, wherein one or more catalysts are used in the laser ablation.
- 6. A manufacturing method of carbon nanotubes as claimed in claim 5, wherein one or more catalysts are included in the laser irradiation target including the carbon molecules having 5-memberd carbon ring bonds.
- 7. A manufacturing method of carbon nanotubes as claimed in claim 6, wherein the catalysts include Ni and/or Co.
- 8. A manufacturing method of carbon nanotubes as claimed in claim 7, wherein the total amount of the Ni and or Co in the laser irradiation target is set between 4.5 at% and 5.5 at%.

- 9. A manufacturing method of carbon nanotubes as claimed in claim 1 wherein the laser ablation is conducted in a low temperature process.
- 10. A manufacturing method of carbon nanotubes as claimed in claim 9, wherein the laser ablation is conducted at temperature of 500 °C or lower.
- 11. A manufacturing method of carbon nanotubes as claimed in claim 10, wherein the laser ablation is conducted at temperature between 350 °C and 450 °C.
- 12. A manufacturing method of carbon nanotubes as claimed in claim 1, wherein the carbon nanotubes are single-wall carbon nanotubes.
- No. A laser irradiation target for the manufacture of carbon nanotubes by means of laser ablation, including carbon molecules having 5-memberd carbon ring bonds.
- 14. A laser irradiation target for the manufacture of carbon nanotubes as claimed in claim 13, including carbon molecules having fullerene bonds.
- 15. A laser irradiation target for the manufacture of carbon nanotubes as claimed in claim 13, wherein C_{60} molecules are used as the carbon molecules having 5-memberd carbon ring bonds.
- 16. A laser irradiation target for the manufacture of carbon nanotubes as claimed in claim 13, wherein the catalysts are included in the laser irradiation target.

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17. A laser irradiation target for the manufacture of carbon nanotubes as claimed in claim 13, wherein the catalysts include Ni and/or Co.

18. A laser irradiation target for the manufacture of carbon nanotubes as claimed in claim 17, wherein the total amount of the Ni and/or Co in the laser irradiation target is set between 4.5 at% and 5.5 at%.

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